. 7



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,674A

DATE: 02/11/2003 TIME: 14:28:44

Input Set : A:\pf0539usn_subseqlist.txt
Cutput Set: N:\CRF4\02112003\I701674A.raw

```
1 <110> APPLICANT: INCYTE PHARMACEUTICALS, INC.; LAL, Preeti;
             YUE, Herry; TANG, Y. Iom;
             HILLMAN, Jennifer L.; BANDMAN, Olga;
              CORLEY, Neil C.; GUEGLEL, Karl J.;
             GCEGONE, Gina A.; BAUGHN, Mariah R.;
             PATTERSON, Chandra; LU, Dyung Aina M.
     8 <120> TITLE OF INVENTION: PROTEINS REGULATING GENE EXPRESSION
     10 <130> FILE REFERENCE: PF-0539 USN
     12 <140> CURRENT APPLICATION NUMBER: US 09/701,674A
C--> 13 <141> CURRENT FILING DATE: 2002-11-14
     15 <150> PFIOR APPLICATION NUMBER: PCT/US99/13281
     15 <151 / PEHOR FILING DATE: 1999-06-11
     18 <1500 PEROR APPLICATION NUMBER: US 60/104,624
     13 111 PRIOR FILING DATE: 1998-10-14
              Frank Allo 1 Will A. S. Marail C. S.
        151. PETOR FILING DATE: 1998-07-24
     24 9150% PRIOR APPLICATION NUMBER: US 60/089,029
                                                               ENTERED
     25 K1510 PRIOR FILING DAIE: 1098-06-12
     27 <1600 NUMBER OF SEQ ID NOS: 62
     23 :170: SOFTWARE: PERL Program
     30 K210> SEQ 10 NO: 1
     31 <211> LENGTE: 379
     32 K2120 TYPE: FRT
     33 <213> ORGANISM: Homo sapiens
     35 <2200 FEATURE:
     36 <221> NAME/KEY: misc feature
     37 <2232 OTHER INFORMALION: Incyte ID No: 591290
     39 4400 - SEQUENCE: 1
     40 Met Val The Phe Thr Cys Ash Ala Cys Gly Glu Ser Val Lys Lys
       oliko din Mai dio iska Bia Mai dan Mai Cyn Ard Ash dys edd Cyd
     7.3
                         20
                                              25
                       Approve thy the Apprile Trully Asp. Ast. Tyr
                                             40
     46 Tys Ash Ele Val Inc Cyc lie for The Asp Cho Lys Tyr Gly Gly
                                             - y As y 110 Type
     49
     by Ala Orp Tie Gin Lyr Tie Jer Gid Let Tie Lys Arg Pro Ash Val
                            How they be a standard the dark Ata The Acp
     in der Pro Lyn Val Ang-
                                             100
                                                                 305
```

54 Asn Val Pro Arg Lys Lys Ala Lys Phe Gln Asn Trp Met Lys Asn

TIME: 14:28:44

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,674A

input Set : A:\pf0539usn_subseqlist.txt
Output Set: N:\CRF4\02112003\I701674A.raw

```
56 Ser Leu Lys Val His Ash Glu Ser Ile len Asp Gln Val Trp Ash
                                        130
                   12.5
58 Ile Phe Ser Glu Ala Ser Asn Ser Glu Pro Val Asn Lys Glu 🤆 n
                   140
60 Asp Oln Arg Pro Leu His Pro Val Ala Asn Pro His Ala Glu !.e
                                         160
6.
6% Ser Thr Lys Val Pro Ala Ser Lys Val Lys Asp Ala Val Glu Cin
                                        175
63
64 Gln Gly Glu Val Lys Lys Asn Lys Arg G u Lys Lys Glu Glu Arg
                                        190
66 Gln Lys Lys Arg Lys Arg Glu Lys Lys G.t. Leu Lys Leu Glu Asn
                                                              1.0
                   200
68 His Gln Glu Asn Ser Arg Asn Gln Lys Pro Lys Lys Arg Lys Lys
70 Gly Gin Glu Ala A.p Leu Glu Ala Gly Gly Glu Glu Val Pro Gas
                                        255
7.
                   2.0
7. Ala Ash Gly Ser Ala Gly Lys Arg Ser Lys Lys Lys Gln Arg
                   245
                                                             .: 5 5
                                        2.50
7 5
74 Lys App Ser Ala Ser Glu Glu Glu Ala Arg Val Gly Ala Gly Lys
                                                               , (
                                         265
                   200
76 Arg Lys Arg Arg His Ser Glu Val Glu Thr Asp Ser Lys Lys bys
   of Amp Cou Ala Pro Ada Lys Gly Lys File Ash Try Lys Gly Thr
                                         3]()
33 Lys Ala Ile Leu Lys Gln Ala Pro Asp Asn Glu Ile Thr Ile
                                         3.25
                                                              330
3; Lys Leu Arg Lys Lys Val Leu Ala Gln Tyr Tyr Thr Val Thr Asp
                                         340
re Glu Eis Eis Arg Ser Glu Glu Glu Leu Leu Val Ile Phe Asn Lys
                                                             "al
RA Lys Ile Ser Lys Am Pro Thr Phe Lys Leu Leu Lys Asp Lys
                                         370
                    365
3 3
9: Lys Leu Val Lys
93 <210> SEQ ID NO:
9: kallo DENGTH: 130
on kailen tylk: BYT
And the state of the medical base of the state of the
95 KRICH FEATURE:
9 + Kills NAME/KEY: m.sc feature
100 <223> OTHER ENFORMATION: Incyte ID No: 815856
102 -400- SEQUENCE:
100 Met Phe Gly Thr Fro Gan Gla His Ard Ast Mcd Fro Can Ana Asp
105 Ala Met Val Leu Val Ala Arg Ash Tyr Biu Arg Lyr Lys Ash elu
107 Cys Arg Din Lys Din Ard Din Glu He Ala Ard Gln Ala Ala Lys
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,674A TIME: 14:28:44

Input Set : A:\pf0539usn_subseqlist.txt
Output Set: N:\CRF4\02112003\1701674A.raw

```
2.5
 100
 109 Met Ald Asp Giu Ala lie L⊬u Gln Glu Arg Glu Arg Gly Gly Pro
                      50
 111 Glu Glu Gly Val Arg Gly Gly His Pro Pro Ala Ile Gln Ser Leu
                      €5
                                           7 O
 1122
till the Ash Lew Lew Ala Asp Ash Arg Tyr Lew Thr Ala Glu Glu Thr
                      80
                                           8.5
 11: Asp Lys Ile Ile Asr. Tyr Leu Arg Glu Arg Lys Glu Arg Leu Met
114
                      95
 117 Arg Ser Ser Thr Asp Ser Leu Pro Gly Glo Leu Arg Gly Arg Ala
 115
                     110
                                           115
 114 Glu Ala Ard Phe Pro Ala Ash His Ser Gly Ard Pro Ard Val Pro
 1.2 -
                                           130
 131 Arg
 184 <210> SEQ 1D NO: 3
 1.35 <2211> LENGTH: 230
 1.16 <212> TYPE: PRT
 1.33 <213> ORGANISM: Homo sapiens
 1.: + <220> FEATURE:
 1 00 <221> NAME/KEY: misc feature
    <?23> OTHER INFORMATION: Incyte ID No: 996352
 1 + √ <400 > SEQUENCE: 3
 194 Met Bor Sor Sor Tyr Tyr Val Ash Ala Les Phe Ser Lys Tyr
 I at Ala day Ala Mar Lea The Win Ash Ala dua Fric Chr. Sec.
                                            25
 135 Phe Ala Pro Asn Ser Gln Arg Ser Gly Tyr Giy Ala Gly Ala Gly
                                           4 )
 140 Ala The Ala Ser Thr Val Pro Gly Leu Tyr Ash Val Ash Ser Pro
                      Ē.(
                                            5.5
     Leu Tyr Gln Ser Pro Phe Ala Ser Gly Tyr Gly Leu Gly Ala Asp
                                            7.5
                                                                 7.5
                      6.3
 145
 144 Ala Tyr Gly Ash Leu Pro Cys Ala Sor Tyr Asp Glh Ash lle Pro
 1 . . .
                      8 ()
                                           8.5
 146 Gly Leu Cys Ser Asp Leu Ala Lys Gly Ala Cys Asp Lys Thr Asp
                                           100
                                                                1 13
 143 Glu Gly Ala Leu His Gly Ala Ala Glu Ala Asn Phe Arg Ile Tyr
                     110
                                           115
      in imp Mot Arg Ser Ser Gly Pro Asp Arg lys Arg Gly Arg Gin
 152 Thr Tyr Thr Ang Tyr Gan Thr Let Glo hea Glo lays Glo bhe His
                      140
 154 Phe Ash Arg Tyr Leu lie Arg Arg Arg Arg Ile Glu lie Ala His
                      100
                                           160
                                                                165
 ino Ara lea Cys be. The G.a Ara G.n lie lys lie Try like J.n Ach
 15) Arg Arg Met Lys Trp Lys Lys Glu H.s Lys Asp d.u Gry fro inr
                                          190
                                                                195
 15.3
                     185
 160 Ala Ala Ala Ala Pre Glu Gly Ala Val Pro Ser Ala Ala Ala Thr
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,674A TIME: 14:28:44

Input Set: A:\pf0539usn_subseqlist.txt
Output Set: N:\CRF4\02112003\I701674A.raw

```
210
 167
                     2.00
 162 Ala Ala Ala Asp Lys Ala Asp Giu Glu Asp Asp Asp Glu Glu Glu
                                           220
                     215
 164 Glu Asp Glu Glu Glu
 165
167 -210 SEQ ID NO: 4
 166 K211> LENGTH: 131
 160 <212 TYPE: PRT
 170 <213> ORGANISM: Homo sapiens
 17: <220> FEATURE:
 175 K221> NAME/HEY: misc feature
 174 (223) OTHER INFORMATION: Incyte 1D No: 1273778
 176 <400> SEQUENCE: 4
 17" Met Ser Glr. Val Thr Phe Ser Asp Val Ala lle Asp Phe Ser His
                                            10
 17. Hu Glu Trp Ala Cys Leu Asp Ser Ala Gln Arg Asp Leu Tyr Lys
                                                                  90
                       20
 18::
 181 Asp Val Met Val Gir. Asn Tyr Glu Asn Leu Val Ser Val Gly Leu
                                            40
                       35
 13.
 13: 3er Val Thr Lys Pro Tyr Val Ile Met Leu Leu Glu Asp Gly Lys
 1 24.1
     Flu Pro Trp Met Met Glu Lys Lys Leu Ser Lys Ala Tyr Pro Pile
 181
                                            7.0
                       . . . . .
      open Dominiary of the Community Processing Community Com-
                                               Contraction of a property
 18 t A. a Leu The G. u His Cys Ser G. u Vai Thr Giu Ille Phe Giu Leu
                                           100
                                                        1 15
 19 \pm
 191 Ser Glu Leu Cys Val Phe Trp Val Leu His Phe Leu Ser Asn Ser
 19.1
 19 t Pro Ash Ser Thr Val Glu Ala Phe Phe Lys Lys
 194
 194 KI10: SEQ II NO: 5
 19 1 <211: LENGTE: 411
 19% <212% TYPE: PRT
 19 + <213: ORGANISM: Homo sapiens
 201 KRZOR FEATURE:
 201 KR21 - NAME/KEY: misc feature
 policy23 - OTHER INFORMATION: Incyte 18 No: 1509715
 THE REPORT OF STREET
 200 Met Jer Dye Arg Fro Per Tyr Ala En Erk Erb Tur Esc Ara Er
 201
                                            1.0
 20 - Ala Thr din Mid Fro Der Thr Fre Mig Fre Val Gry Tyr Asta Fre
 vis Tyr Ber His Lee. Ala Tyr Am. Am. Tyr Aig leu Gly Gly Am. Fe
                                            40
                       35
      the The Ash Company of the Law Sections
                                            55
                       50
 214 Bys Pro Fro Bys Pro Fro Asp Bys Fro Leu Met Pro Tyr Met Arq
 1.15
```

TIME: 14:28:44

RAW SECUENCE LISTING

PATENT APPLICATION: US/09/701,674A

Input Set : A:\pf0539usn_subseqlist.txt
Output Set: N:\CRF4\02112003\I701674A.raw

```
216 Tvr Ser Arg Lvs Val Trp Asp Gin Val Lys Ala Ser Ash Fre ASP
                     80
                                          85
217
218 Leu Lys Leu Trp Glu Ile Gly Lys Ile Le Gly Gly Met Trp Arg
                     95
                                         100
                                                               105
219
220 Asp Leu Thr Asp Glu Glu Lys Gin Glu Tyr Leu Asn Glu Tyr Glu
                     110
                                         1 1 15
MAM Ala Glu Lys Ile Glu Tyr Ash Glu Ser Met Lys Ala Tyr His Ash
11.4 Ser Pro Ala Tyr Leu Ala Tyr Ile Ash Ala Lys Ser Arg Ala Glu
                                          140
                     140
.m 6 Ala Ala Leu Glu Glu Glu Ser Arg Gln Arg Gln Ser Arg Met Glu
                                                               1.65
                     155
                                          160
.55 Lys Gly Glu Pro Tyr Met Ser Ile Gln Pro Ala Glu Asp Pro Asp
                     170
                                          175
200 Asp Tyr Asp Asp Gly Phe Ser Met Lys His Thr Ala Thr Ala A:q
                                                               1:45
                     135
                                          190
ded Phe Gln Arg Ash His Arg Leu Ile Ser Glu Ile Leu Ser Glu Ser
                     200
                                          205
3:4 Val Val Pro Asp Val Arg Ser Val Val Thr Thr Ala Arg Met Gin
200 Val Leu Lys Arg Glr Val Gln Ser Leu Met Val His Gln Arg Lys
                                          235
                     230
     Lagrania Ara Cho
                     oek Lea Gla III Clu III: Arg His Gla Gla hys
    lws Ard Lvs Phe Low Gru Ser Thr Asp Jor Fhe Ash Ash Gld Log
                     .2 v) Û
                                          260
    Lys Arg Leu Cys Gly Leu Lys Val Glu Val Asp Mot Glu Lys Ila
                                          580
3
344 Ala Ala Giu Ile Ala Gin Ala Giu Giu Gin Ala Arg Lys Arg G.n
                                          295
                     290
::6 Glu Glu Arg Glu Lys Glu Ala Ala Glu Gin Ala Glu Arg Ser
                                                               Gin
                     3.03
24* Ser Ser Ile Val Pro Glu Glu Glu Gln Ala Ala Asn Lys Gly
                     320
                                                               330
240
                                          325
2.0 Sta Lys Lys Asp Asp Glu Asn Ile Pro Met Glu Thr Glu Glu Thr
                                                               345
251
                     335
                                          340
    His Lea Glu Gra Tar Thr Glu der Glm Gla Asn Gly Gla Glu Gly
                     2 f. G
                                          355
 that the the The Fe Git Are the Glu Sor Gly Gen Giu Gly Val Asp
                     Bob
    Jer Met Ala Giu Glu Gly Thr Ser Asp Ser Asn Thr Gly Ser Glu
 500
257
                     380
    Der Ash Ser Ala Thr Val Gre Glu Fro Fro Thr Asp Fro Ile Pro
                     4 14 E.
     The Asy of the This This
263 ≥210> SEQ ID NO: 6
264 <2115 LENGTH: 226
265 + 2125 TYLE: FRT
```

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/701,674A

DATE: 02/11/2003 TIME: 14:28:45

input Set : A:\pf0539usn_subseqlist.txt
Output Set: N:\CRF4\02112003\I701674A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pes. 218,223
Leq#:35; N Fos. 6,61,882,883,884,885,886,887,888,889,890,891,892,893,894
Seq#:35; N Pos. 895,896,897,898,899,900,901,902,903,904,905,906,907,908,912
Seq#:35; N Pos. 914,916,920,922,929,932,964,967,971,975,986,1000,1028,1033
Seq#:35; N Pos. 1039,1052,1053,1063,1065,1071,1080,1090,1100,1102,1110,1113
Seq#:35; N Pos. 1123,1128,1134,1139,1142,1143,1144,1153,1158,1164,1169,1177
Seq#:35; N Pos. 1180,1181,1182,1184,1189,1191,1192,1211,1224,1239,1246,1247
Seq#:35; N Pos. 1243,1263,1266,1274,1284,1291,1314,1321,1322,1339,1341,1343
Seq#:35; N Pos. 1347,1351,1353,1359,1362,1363,1364
Seq#:37; N Pos. 584,698,740,755,757,776,796,805,811,824,850,856
Seq#:42; N Pos. 61,63,69,92,100,151,165,179,182,198,218
Seq#:51; N Pos. 1957
Seq#:59; N Pos. 1203,1204